

OFFICE OF MANNED SPACE FLIGHT
PROGRAM DIRECTIVE

M-D

MA

1400.070
(Project)

DATE

SEP 6 1967

APOLLO PROGRAM DIRECTIVE NO. 31

MA009-031-1A

TO : DISTRIBUTION

FROM:


APOLLO PROGRAM DIRECTOR

SUBJECT : Apollo System Safety Program Requirements

REFERENCES: NASA Management Instruction 1138.12, dated August 29, 1967,
Subject: Function and Authority - Manned
Space Flight Safety Office

I. PURPOSE

This Directive establishes and implements the Apollo System Safety Program and defines the program requirements which are in consonance with the reference Management Instruction.

II. SCOPE

This Directive is applicable to all Apollo Headquarters and Center System Safety Activities.

III. APOLLO HEADQUARTERS (MA) RESPONSIBILITIES

Reporting to the Apollo Program Director, the Apollo System Safety Office will:

- A. Establish Apollo safety policies and guidelines that are commensurate with overall NASA objectives and policies.
- B. Review and approve each Center's Apollo Safety Program Plan prepared in accordance with the requirements of this Directive.
- C. Monitor each Center's Safety Program performance for compliance with NASA Management Instruction #1138.12.
- D. Establish in conjunction with the Field Centers functional system safety interfaces and serve as the focal point for periodic inter-center meetings.
- E. Integrate all NASA Center system safety data and analyses into a total Apollo system safety program.

- F. Provide for the Apollo Program Director current status of the Apollo system safety program emphasizing safety levels established for the system, the risks being incurred, and the action implemented to reduce these risks.

IV. CENTER RESPONSIBILITIES

An office responsible for Apollo System Safety shall be established in accordance with the requirements set forth in NASA Management Instruction #1138.12.

Each Center office for Apollo System Safety shall prepare a plan that describes the safety tasks to be performed and the method to be used for the accomplishment of these tasks, all keyed to major program milestones.

This plan shall include requirements in support of:

- A. The organization, reporting lines and responsibilities of the office for Apollo System Safety.
- B. Functional relationships with the other disciplines including reliability, maintainability, quality, and systems engineering.
- C. System safety data retention and dispersal methods that will show how maximum usage will be made of the data and analyses already developed.
- D. The techniques and method for performing a quantitative safety analysis of each manned Apollo system in accordance with requirements established by the Apollo System Safety Program Office.
- E. The System safety activities being performed in support of design reviews, certification reviews and flight readiness reviews.
- F. The functional relationship with the Industrial and Public Safety Programs, placing particular emphasis on the interfaces so that the complete spectrum of safety is covered.
- G. The system safety functional inter-relationships of the Center's Prime Contractors with other Apollo contractors.
- H. The safety activities unique to each Center's individual requirements.

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- I. Reporting technique that will provide the Apollo Program System Safety Office with overall safety visibility.
- J. Proposed schedules for the performance and completion of the Center's system safety programs.

ACTION REQUIRED

Each Center shall develop and implement an Apollo system safety program as defined herein. Submittal of the respective Center Safety plans shall be completed within 60 days following publication of this Directive.